#### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 101161-1 WO	FOR FURTHER ACTION	See item 4 below  Priority date (day/month/year) 11 July 2003 (11.07.2003)	
International application No. PCT/SE2004/001113	International filing date (day/month/year) 08 July 2004 (08.07.2004)		
International Patent Classification (8t See relevant information in Form I	h edition unless older edition indicated) PCT/ISA/237		
Applicant ASTRAZENECA AB			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications	relating to the following items:		
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		

	Date of issuance of this report 16 January 2006 (16.01.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Becamel
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Form PC1/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

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From the	
INTERNATIONAL	SEARCHING AUTHORITY

From the INTERNATIONAL SEARCHING AUTHORITY	WIPO PCT		
To:	DCT		
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t <sub>e</sub> .	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
ASTRAZENECA AB	(PCT Rule 43bis.1)		
Global Intellectual Property SE-151 85 Södertälje	(1011410-130111)		
52 101 00 0000100250			
	Date of mailing (day/month/year) 1 1 -11- 2004		
Applicant's or agent's file reference	FOR FURTHER ACTION		
101161-1 WO	See paragraph 2 below		
International application No. International filing da			
PCT/SE2004/001113 08.07.2004	11.07.2003		
International Patent Classification (IPC) or both national classif A61K 47/36, A61K 47/34, A61K 9/0	,		
Applicant	0, AUIN 9/14		
AstraZeneca AB et al			
1. This opinion contains indications relating to the following is	tems:		
Box No. I Basis of the opinion			
Box No. II Priority	!		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain documents cited			
Box No. VII Certain defects in the international app	plication		
Box No. VIII Certain observations on the international application			
2. FURTHER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66. I bis (b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further opinions, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.	·		
Name and mailing address of the ISA/SE Patent- och registreringsverket	Authorized officer		
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Box No. I	Basis of this opinion
which it v	ard to the language, this opinion has been established on the basis of the international application in the language in was filed, unless otherwise indicated under this item.  his opinion has been established on the basis of a translation from the original language into the following language,  , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With rega	ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:  of material  a sequence listing  table(s) related to the sequence listing
b. format	in written format in computer readable form
c. time o	of filing/firmishing  contained in the international application as filed.  filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addition	al comments:

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Box No. 11	I Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	on whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be y applicable have not been examined in respect of:
	the entire international application
$\boxtimes$	claims Nos. 1-15
because	the said international application, or the said claims Nos. 1-15 relate to the following subject matter which does not require an international preliminary examination (specify):
or a	PCT Rule 67.1.(iv).: Methods for treatment of the human animal body by surgery or therapy, as well as diagnostic nods.
	the description, claims or drawings (indicate particular elements below) or said claims Nos.  are so unclear that no meaningful opinion could be formed (specify):
	The claims, or said claims Nos. are so inadequately supported
	by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos.
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
}	the written form has not been furnished
ł	does not comply with the standard
	the computer readable form has not been furnished does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

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			3bls.1(a)(i) with regard to novelty, inventive step or industrial actions supporting such statement	
1. Statemen	nt			
Nove	lty (N)	Claims		YES
l.		Claims	16-20	NO
Inventive step (IS)		Claims		YES
		Claims	16-20	NO
Indus	strial applicability (IA)	Claims	16-20	YES
}		Claims		NO

#### 2. Citations and explanations:

The following documents are cited in the International Search Report:

- D1 WO 94/25070 A1
- D2 WO 88/06893 A1
- D3 WO 00/06122 A1
- D4 WO 95/34292 A2
- D5 WO 03/009846 A1
- D6 WO 98/24414 A1
- D7 US 5817338 A1

claimed invention relates to method administration of acid labile proton pump inhibitor compounds. The problem to solve is the treatment of patients with difficulties in swallowing and for pediatric patients. This is solved by mixing the coated compounds with one or more pharmaceutically acceptable thickeners and an aqueous The thickener is capable of forming a viscous medium when dispersed in the aqueous medium. The formed aqueous suspension is administrated through a gastric tube or syringe.

D1 discloses a pharmaceutical composition for oral administration comprising a coated proton pump inhibitor, incorporated into a paste-like gel. This is obtained by mixing a coated proton pump inhibitor with dry gelling agent(s) before adding water. The composition is mixed in a syringe.

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

The claimed oral composition and the known composition contain the same ingredients and are obtained in the same way. Thus, claims 16-20 lack novelty.

The information, that the known composition is aimed at animals, lacks meaning in this connection.

D2 discloses an oral composition which is adapted to be dispersed in an aqueous carrier which comprises a multiplicity of particles comprising an active substance, said particles being combined with one or more gelling or swelling agents capable of forming a viscous medium around the particles in an aqueous carrier.

In example 1, a pre-mixed gel was prepared from water and Veegum(R) PRO. The coated crystals are mixed with the pre-mixed gel. This formulation made the crystals easy to swallow.

The claimed invention differs from D2 in that the mentioned active agents are not the same.

D3 (claim 20) discloses a method of producing a pharmaceutical composition, which comprises (1) preparing a drug-containing substance (2) preparing a gelling agent capable of gelling at normal temperature when added to water, and (3) mixing the drug-containing substance and the gelling agent.

D4 discloses in example 10 enteric-coated Lactobacillus acidophilus microgranules in yoghurt.

D5 discloses different examples of formulations containing a swelling/thickener agent and water.

D6 discloses a pharmaceutically acceptable liquid excipient suspending base for pharmaceutically active compounds, which liquid excipient suspending base comprises water, xanthan gum and hydroxypropyl methylcellulose.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

D7 discloses multiple unit tableted dosage form of omeprazole.

A solid composition according to claims 16-18, the use of a thickener according to claim 19 and the use of a viscous medium according to claim 20 are not considered to involve step (Article 33(3) PCT). inventive There are compositions known in the art which, by a person skilled in can easily be adapted to the claimed solid composition and the use of thickeners. D2-D6 comprise active agents similar to those of the present invention mixed in compositions similar to those of the examples in the present application. Considering what is known from D1 and other prior art it is considered to lie within the skills of a person skilled in the art, to prepare a solid composition comprising a proton pump inhibitor in a form of coated pellets (from D7), wherein the pellets are in admixture with one or more thickeners capable of forming a viscous medium when dispersed in an aqueous carrier.

Thus, claims 16-20 lack novelty and inventive step.